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Making textured sheet applies thermoplastic to finely-pitted PTFE texturing roller, trapping and compressing air for subsequent clean ejection of texture, followed by further textile surface-texturing stages

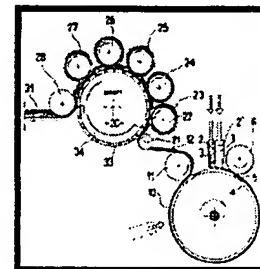
Assignee: **HCD HYGIENIC COMPOSITES MATERIAL DEV GMB**
Non-standard company
ADVANCED DESIGN CONCEPTS GMBH Non-standard company
HCD HYGIENIC COMPOSITES DEV GMBH Non-standard company
WAGNER W Individual
Inventor: **WAGNER W;**

Accession / Update: **2000-293891 / 200322**

IPC Code: **B29C 41/26 ; B29C 59/02 ; B32B 3/02 ; D06C 11/00 ; B29C 37/00 ; B29C 41/38 ; B29C 43/22 ; B29C 43/46 ; B29C 43/50 ; B29C 49/00 ; B29C 59/00 ; B29D 7/01 ; B29D 31/00 ; B32B 33/00 ; D06C 29/00 ; D06N 7/04 ; B29K 23/00 ; B29L 21/00 ;**

Derwent Classes: **A32; F08; P73;**

Manual Codes: **A04-E08B**(Mechanical engineering uses) , **A11-C04** (Surface treatment) , **A12-H11**(Rolls, rollers) , **F02-C02** (Methods of manufacture; machinery, general) , **F03-A** (Other) , **F03-A02**(Stretching, drying, setting, decatizing, stentering, tentering, mechanical shrinkproofing and stabi) , **F04-C01**(Underwear; baby linen (including diapers); handkerchiefs; foundation garments; pantyhose and tights) , **F04-D03**(Draperies and upholstery, curtains)



Derwent Abstract

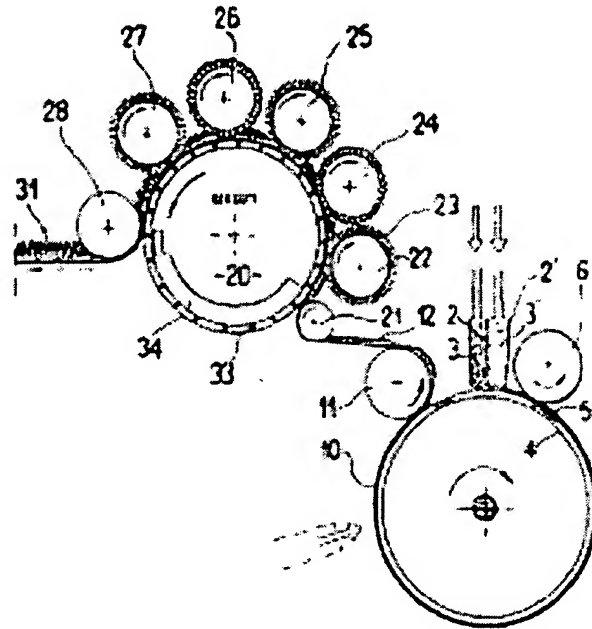
DERWENT RECORD

(DE19843109A) **Novelty** - Molten- or sheet thermoplastic contacts a non-adherent, variable-temperature pitted molding surface (5), texturing it. Numerous blind holes are part filled. Mechanical pressure compresses cavity volumes remaining, filling the matrix but leaving the cavities only part-filled by thermoplastic. Still against the surface, the plastic is cooled and set, to retain the molded texturing. Pressure is released and trapped compressed air forces the plastic texture out. The set plastic is drawn from the surface as a textured sheet. Plastic introduced into the cavities and derived from the material, forms a nap comprising projections and burls.
Detailed Description - INDEPENDENT CLAIMS are included for machinery carrying out the process, and the product obtained.
Use - Cited examples of products, include a textile backing sheet for use in hygiene applications and an insert for covering materials used in the furniture industry. Various coating, impregnation, perforation and printing processes can be applied. A grained finish and various textile backings can be applied.
Advantage - The method textures in continuous production, without

separating material into the fine cavities of the texture-producing roller, or variation in the product. Internal overpressures of 2-5 bar are set up, so that whilst the matrix is filled, the cavities are only part-filled. This is useful, because when the pressure is removed, the compressed air helps force the thermoplastic out of the cavities again. The fine texture produced remains attached to the body of the material. The roller initially producing the texturing is PTFE, with a suitably-textured surface.

Abstract info: DE19843109A: Dwg.1/3 , EP1115553B:

Images:



Description of Drawing(s) - The processing train described, is illustrated in side elevation.

thermoplastic nozzles 2, 2', matrix roller 4, matrix 5, texture moderating rollers 22-27, **Description of Drawing(s)** - The processing train described, is illustrated in side elevation., thermoplastic nozzles 2, 2', matrix roller 4, matrix 5, texture moderating rollers 22-27

Family:

Patent	Pub. Date	DW Update	Pages	Language	IPC Code
DE19843109A1 *	March 30, 2000	200026	7	German	B29C 41/26
Local appls.: DE1998001043109 ApplDate:1998-09-21 (98DE-1043109)					
ES2180344T3 =	Feb. 01, 2003	200322		Spanish	B29C 59/02
Local appls.: Based on <u>EP01115553</u> (EP 1115553) <u>EP1999000969373</u> ApplDate:1999-09-11 (99EP-0969373)					
US6511734 =	Jan. 28, 2003	200311	7	English	B32B 3/02
Local appls.: Based on <u>WO00016965</u> (WO 200016965) <u>US2001000787576</u> ApplDate:2001-04-25 (2001US-0787576) <u>WO1999EP0006739</u> ApplDate:1999-09-11 (99WO-EP06739)					
DE59902067G =	Aug. 22, 2002	200263		German	B29C 59/02
Local appls.: Based on <u>WO00016965</u> (WO 200016965) Based on <u>EP01115553</u> (EP 1115553) <u>WO1999EP0006739</u> ApplDate:1999-09-11 (99WO-					

EP06739)
DE1999000502067 ApplDate:1999-09-11 (99DE-0502067)
EP1999000969373 ApplDate:1999-09-11 (99EP-0969373)

JP2002526669W_ = Aug. 20, 2002 200258 19 English D06C
11/00

Local apps.: Based on WO00016965 (WO 200016965)
JP2000000573902 ApplDate:1999-09-11 (2000JP-0573902)

WO1999EP0006739 ApplDate:1999-09-11 (99WO-
EP06739)

EP1115553B1 = July 17, 2002 200254 11 German B29C 59/02

Des. States: (R) AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

Local apps.: Based on WO00016965 (WO 200016965)
EP1999000969373 ApplDate:1999-09-11 (99EP-0969373)
WO1999EP0006739 ApplDate:1999-09-11 (99WO-
EP06739)

CN1319047A = Oct. 24, 2001 200213 English B29C 59/02

Local apps.: CN1999000811186 ApplDate:1999-09-11 (99CN-0811186)

EP1115553A1 = July 18, 2001 200142 German B29C 59/02

Des. States: (R) AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

Local apps.: Based on WO00016965 (WO 200016965)
EP1999000969373 ApplDate:1999-09-11 (99EP-0969373)
WO1999EP0006739 ApplDate:1999-09-11 (99WO-
EP06739)

DE19843109C2 = Nov. 09, 2000 200057 8 German B29C 41/26

Local apps.: DE1998001043109 ApplDate:1998-09-21 (98DE-1043109)

AU9959773A = April 10, 2000 200035 English B29C 59/02

Local apps.: Based on WO00016965 (WO 200016965)
AU1999000059773 ApplDate:1999-09-11 (99AU-0059773)

WO0016965A1 = March 30, 2000 200026 24 German B29C 59/02

(N) AM AU BA BG BR BY CA CN CZ EE GE HU JP KE KG KR KZ LT LV MX
NO NZ PL RO RU SI SK TR UA US
(R) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

Local apps.: WO1999EP0006739 ApplDate:1999-09-11 (99WO-
EP06739)

Priority Number:

Application Number	Application Date	Original Title
DE1998001043109	Sept. 21, 1998	

Extended Polymer
Index:

Show extended polymer index



Unlinked Registry
Numbers:

1840U 1842U

Related Accessions:

Accession Number	Type	Derwent Update	Derwent Title
C2000-088930	C		
1 item found			

Title Terms: TEXTURE SHEET APPLY THERMOPLASTIC FINE PIT PTFE TEXTURE ROLL
TRAP COMPRESS AIR SUBSEQUENT CLEAN EJECT TEXTURE FOLLOW
TEXTILE SURFACE TEXTURE STAGE

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